

Exhibit B
Deposition transcript of
Plaintiff's Expert Witness
Of Hendik Bessembinder

ORIGINAL TRANSCRIPT

UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF NEW YORK

U.S. COMMODITY FUTURES)	
TRADING COMMISSION,)	Deposition of:
)	
Plaintiff,)	<u>HENDRIK BESSEMBINDER</u>
)	
vs.)	
)	
ERIC MONCADA,)	Civil No. 12-CV-8791
BES CAPITAL, LLC, and)	
SERDIKA, LLC,)	
)	
Defendants.)	

December 4, 2013 * 9:08 a.m.

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Salt Lake City, Utah 84101

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P R O C E E D I N G S

HENDRIK BESSEMBINDER

called as a witness, being first duly sworn,
was examined and testified as follows:

EXAMINATION

BY MR. ASCHE:

Q. Good morning, sir.

A. Good morning.

Q. I'll try to get you in and out of this as fast as we can. Would you just, for the record, just state your name and your business address.

A. Yeah. So my name is Hendrik Bessembinder. My business address is David Eccles School of Business, University of Utah, Salt Lake City, Utah.

Q. Did you prepare an expert report in the matter of CFTC versus Moncada?

A. I did, yes.

Q. Do you have a copy of that report with you?

A. I do not.

Q. Oh, you don't?

A. I don't.

Q. I, unfortunately, brought only my copy.

MR. ASCHE: Can you give that to the

1 witness?

2 THE WITNESS: Thank you.

3 MR. ASCHE: And could we mark that? Why
4 don't we mark that as Bessembinder Exhibit 1.

5 (EXHIBIT 1 WAS MARKED.)

6 Q. (By Mr. Asche) Is Exhibit 1 a copy of the
7 expert report which you prepared?

8 A. I have not gone through it page by page,
9 but it does appear to be my report.

10 Q. If you look at page 34, is that your
11 signature?

12 A. That is my signature, yes.

13 Q. When were you retained by the CFTC to
14 prepare an expert report?

15 A. I don't think I can give the exact date.
16 It would have been approximately late February of
17 this year.

18 Q. And were you retained pursuant to a
19 written retainer agreement?

20 A. There is a contract in place.

21 Q. Do you have a copy of that with you?

22 A. No.

23 Q. Without holding you to the exact terms of
24 the contact, are you being compensated on an hourly
25 basis?

1 A. Yes, an hourly basis.

2 Q. And does the rate of compensation change
3 depending on whether you're testifying or
4 researching?

5 A. No. Single flat rate.

6 Q. And what is that rate?

7 A. \$525 per hour.

8 Q. Now, on page 1 of your report near the
9 bottom.

10 A. Yes.

11 Q. You state that you "served as a consultant
12 on issues relating to financial and commodity markets
13 for private and governmental clients." Do you see
14 that?

15 A. I do.

16 Q. And you list FINRA?

17 A. Yes.

18 Q. Have you done any work for FINRA in
19 connection with commodities?

20 A. No. My work with FINRA was regarding
21 so-called structured products, debt securities.

22 Q. And with respect to the New York Stock
23 Exchange, have you done any consulting work in
24 connection with commodities?

25 A. No. The New York Stock Exchange, of

1 course, is an equity market.

2 Q. Okay. The DOJ?

3 A. Those were commodity-related matters, some
4 equity, some commodity.

5 Q. And when did you perform those services?

6 A. My first work with DOJ was as far back as
7 '95 or so. Commodity work was more recent. I
8 couldn't give an exact date, but five, seven years
9 ago, something like that.

10 Q. And what was the nature of the work that
11 you did for DOJ five to seven years ago?

12 A. I'm somewhat limited in what I can
13 discuss, but it involved potential manipulation of
14 commodity prices.

15 Q. Was it in connection with litigation?

16 A. There was an investigation. I'm not sure
17 that it ever went to formal charges from DOJ, in any
18 event. It was an investigation, I think is the
19 accurate way to put it.

20 Q. And I take it you're not at liberty to
21 disclose the name of the subject of that.

22 A. That's correct.

23 Q. Did you generate any kind of a written
24 report for the DOJ?

25 A. In that matter, no.

1 Q. What have you done for the CFTC?

2 A. I've done a few cases for CFTC, all
3 commodity cases, some manipulation cases, some price
4 reporting cases.

5 Q. Did any of those result in your testifying
6 in court?

7 A. Yes. The Placido case just about a decade
8 ago.

9 Q. Since the Placido --

10 MR. RIDNOUR: It's DiPlacido, D-i.

11 MR. ASCHE: DiPlacido, D-i-P-l-a-c-i-d-o.

12 Q. (By Mr. Asche) And since that case, have
13 you testified in any form for the CFTC?

14 A. No, nothing else has gone to trial, not
15 that I've worked on.

16 Q. How about depositions?

17 A. Yes, I did a deposition for the CFTC six
18 or seven years so, in this very building, as a matter
19 of fact.

20 Q. What kind of case?

21 A. That was a price reporting case. The
22 question was whether certain traders had accurately
23 reported prices to plats.

24 Q. So manipulation by price reporting?

25 A. I'm not sure if "manipulation" was the

1 label that was used or not.

2 Q. And were you -- what was the nature of
3 your opinion that you held? I don't need to know the
4 exact opinion, but what was the nature, the subject
5 matter of the opinion?

6 A. I would characterize it as a financial
7 economist clarifying why false reporting of prices is
8 a bad thing from an economic viewpoint.

9 Q. And that matter never went to trial?

10 A. Not that I know of. I don't think it did.

11 Q. Since that occasion six or seven years
12 ago, have you testified on behalf of the CFTC?

13 A. No.

14 Q. What work have you done for the attorney
15 generals or the attorneys general of the New York
16 area and California?

17 A. Those were matters quite distinct from
18 each other. The Attorney General of the State of New
19 York case involved the compensation of the New York
20 Stock Exchange chairman.

21 Q. Mr. Phelan?

22 A. No.

23 MR. RIDNOUR: Grasso?

24 Q. (By Mr. Asche) Grasso, yes.

25 A. Grasso. The case got a fair amount of

1 press, so that was my work for the -- and I'm not a
2 compensation expert.

3 Q. You believe he was undercompensated?

4 A. Not necessarily. I'm not a compensation
5 expert. My work in that case was related to the
6 performance of the exchange itself during his watch.
7 In any event, that was the Attorney General of New
8 York. The Attorney General of California was
9 actually a tax case involving the use of
10 controversial tax shelters to avoid tax liability,
11 and I was involved -- the tax shelter involved
12 complex trading strategies, so my expertise was in
13 terms of the trading strategies that were used and
14 the economics of the trades.

15 Q. And for Goldman Sachs or for Interactive
16 Data Corporation?

17 A. Interactive Data Corporation, that was a
18 nonlitigation matter. They were considering
19 acquisition of another firm, and I was involved in
20 their due diligence of evaluating the potential
21 acquisition.

22 Q. And Goldman Sachs?

23 A. I worked with them on strategies for
24 quantifying trade execution costs.

25 Q. Attached to your report is a CV, a résumé,

1 which lists publications.

2 A. Yes.

3 Q. Could you just go down the list and
4 identify publications that -- the subject of which is
5 manipulation of any securities markets.

6 A. None of my published work is focused on
7 manipulation in particular.

8 Q. Would you just go down the list and list
9 any published works that deal with the commodities
10 markets.

11 A. Well, some of them deal with issues that
12 are germane to commodities as well as equities. Then
13 there are some that focus on commodities in
14 particular. So in the first category, the second and
15 third publications listed, "Noisy Prices and
16 Inference Regarding Returns," "Liquidity Biases in
17 Asset Pricing Tests," the issues there are
18 statistical issues, but they apply to data from any
19 financial market.

20 Which ones focus on commodities in
21 particular, there's two papers about electric power
22 markets, one published in *Journal of Business*, one
23 published in *Journal of Finance*. There's several
24 papers with futures markets in the title, and those
25 papers in general included an array of commodities

1 within the study. I can point out the particular
2 ones if you wish.

3 Q. If you can.

4 A. So I might be missing some, but the ones
5 that in particular would -- I'm quite sure from
6 memory -- would include commodities would be near the
7 bottom of the second page, "An Empirical Analysis of
8 Risk Premia in Futures Markets," "Price Volatility,
9 Trading Volume and Market Depth: Evidence from
10 Futures Markets."

11 Over to the third page, "Systematic Risk,
12 Hedging Pressure and Risk Premiums in Futures
13 Markets," "Time Varying Risk Premia and Forecastable
14 Returns in Futures Markets," those all included
15 commodities, if my memory's correct. And again, I
16 may have missed one or two in the sense that one or
17 two more may have included commodities.

18 Q. But futures markets would include any
19 security, I take it?

20 A. Yeah. I mean, some of those studies would
21 have also had financial futures in the study, along
22 with commodity futures.

23 Q. Right. And equity futures as well?

24 A. I'm not remembering exactly what was in
25 every individual study, but some of the studies would

1 have had equity futures along with commodity futures.

2 Q. Your résumé lists work for FERC, which may
3 be a dirty word in this room, but...

4 A. I thought all the government agencies all
5 got along very well.

6 Q. Maybe they're a dirty word with me. What
7 have you done for them?

8 A. FERC, I was involved in, I think the label
9 they used was the Western Markets Investigation, but
10 to most of the world it would be known as the Enron
11 investigation.

12 Q. And specifically what did you do?

13 A. So around the time of the controversy
14 related to Enron, FERC was charged by Congress with
15 investigating various aspects of energy trading,
16 particularly in the Western U.S. FERC assembled a
17 team of consultants and academics and collectively
18 carried out that investigation. It's been more than
19 a decade, so I have to think a little bit about where
20 I was most involved.

21 I recall trying to work to quantify
22 Enron's profitability. I recall some assessment of
23 whether Enron may, at various times, have attempted
24 to manipulate natural gas markets. I feel like I'm
25 missing something in the sense that I contributed to

1 other aspects, but sorry, it's not fresh in my
2 memory.

3 Q. Have you traded commodities?

4 A. No. I'm an academic, not a trader.

5 Q. On page 2 of your report, at the bottom of
6 paragraph 3, you state that you have examined -- I
7 assume examined a longer time period. Do you see
8 that?

9 A. Yes, I do see that.

10 Q. What time period did you examine?

11 A. The specific dates are laid out within the
12 report, but going from memory, it was from some point
13 in August through the end of November of 2009.

14 Q. Did you look at any records for any period
15 prior to August 2009?

16 A. No.

17 Q. Or after the end of November?

18 A. No.

19 Q. So it was only on this one product,
20 December wheat, that you focused?

21 A. Correct.

22 Q. You conclude in paragraph 4 that
23 Mr. Moncada "did not enter the large lot orders with
24 intention that they generate trades." Do you see
25 that?

1 A. That's correct.

2 Q. But, in fact, some of them did generate
3 trades; correct?

4 A. There were some trades generated, yes.

5 Q. And I think in your report you say that
6 the average time between entering the order and
7 cancellation of the order was on the order of
8 2.4 seconds?

9 A. I believe that's about correct, yes.

10 Q. And is it fair to say that that's ample
11 time for someone to hit his orders?

12 A. Someone could react in two seconds, yes.

13 Q. Someone could react in one second;
14 correct?

15 A. I believe so, yes.

16 Q. And automatic trading programs could react
17 in a fraction of a second; correct?

18 A. I believe that's correct, yes.

19 Q. And maybe a millisecond?

20 A. Yes.

21 Q. And did you learn in the course of your
22 work whether Mr. Moncada used an automatic
23 algorithmic method of entering orders or did it by
24 hand?

25 A. The only direct evidence I have is a field

1 that was in with what I refer to as the "lag files."
2 But there was a field that delineated use of -- I
3 believe the phrase was "autospreader," and then a
4 manual entry. So my understanding is he had both
5 manual and automated entry options.

6 Q. Do you know whether any of the
7 cancellations were accomplished via some algorithmic
8 method?

9 A. I'm not certain of that.

10 Q. Would that be relevant to your conclusion
11 concerning his intention?

12 A. Not particularly.

13 Q. Is it fair to say that someone who wanted
14 to enter an order and cancel it before it could get
15 hit, it would be more effective to use an automatic
16 device as opposed to do it by hand?

17 A. Well, effective can't be judged without an
18 understanding of what the trader's intentions were.

19 Q. It would be faster; correct?

20 A. Certainly -- I would certainly think he
21 could have cancelled even faster than two seconds if
22 he had wished to.

23 Q. And he could have cancelled even faster if
24 he'd used an algorithmic method as opposed to doing
25 it by hand?

1 A. Presumably.

2 Q. Much faster; correct?

3 A. I would anticipate that he could have
4 entered and cancelled within microseconds if he had
5 wished to.

6 Q. On page 3 in paragraph little (i) you
7 state that 710 large lot orders were entered by
8 Moncada on the eight charge dates and 143 by other
9 market participants combined. Do you see that?

10 A. Yes.

11 Q. Did the 143 large lot orders by other
12 market participants include orders by other market
13 participants that were entered via the Iceberg
14 method?

15 A. I would not be able to tell. I can
16 clarify, if you wish, about why, why I couldn't tell.

17 Q. Yes, please.

18 A. The data that I received from the Chicago
19 Board of Trade did not contain a field that would
20 allow me to identify which orders were Iceberg orders
21 and which are not. The only data set that clarified
22 that was what I referred to as the "lag files," and
23 the lag files were pertaining to the two firms that
24 Moncada was affiliated with. So I didn't have that
25 data for the broader set of traders.

1 Q. So there may have been an unlimited number
2 of traders who wanted to trade in large lot
3 quantities but did it via Iceberg; correct?

4 A. Well, it couldn't be unlimited, given
5 there was only 143 of such orders entered by all the
6 rest of the traders out there.

7 Q. But the 143 orders for all the rest of the
8 traders don't include Iceberg orders; correct?

9 A. I don't think that's correct. The
10 database does not flag Iceberg orders, but I'm not
11 sure. Your question seems to presume that the
12 database excludes Iceberg orders, and I'm not sure if
13 that's the case or not.

14 Q. Well, an Iceberg order would show up on
15 the database as an order of 20, and then an order of
16 20, and then an order of 20, et cetera; correct?

17 A. Well, there's an issue of what's displayed
18 to the world and there's an issue of what's recorded
19 by the exchange, and those are not necessarily the
20 same.

21 Q. Well, do you know in this case whether the
22 143 large lot orders included orders that were
23 entered via the Iceberg method a few contacts at a
24 time?

25 A. So if I understand your question

1 carefully -- sorry -- if I understand your question
2 correctly, you're asking do I know whether the 143
3 orders includes or excludes large Iceberg orders?

4 Q. No, not large Iceberg orders. Yeah,
5 Iceberg orders, no one of which would be a large lot
6 order. But in the aggregate, in other words, if a
7 trader wanted to buy or sell 200 contracts, but he
8 entered the orders 20 contracts at a time, would
9 those transactions be included in your 143 large lot
10 orders?

11 A. No, not for Moncada and not for other
12 traders. The large lot orders were defined by me as
13 orders where the individual order was 200 contracts
14 or more, not an accumulation.

15 Q. And do you have any idea of what
16 percentage of trades where a trader wanted to
17 accumulate or sell 200 lots or more were accomplished
18 via the Iceberg method?

19 A. No. As I said, other than the data
20 pertaining to the two firms that Moncada was
21 associated with, I do not have anything that
22 identifies Iceberg orders for me.

23 Q. And I believe you intimate or you say in
24 your report that the Iceberg method is a more
25 effective method of accumulating or disposing of

1 large numbers of contracts?

2 A. In general, what I had to say about
3 Iceberg orders is they can be effective for getting
4 your trades done without moving the price unduly.

5 Q. So there may have been a large number of
6 traders who entered Iceberg orders for large lots,
7 but did it in small increments that are not captured
8 by this data; is that correct?

9 A. I think we're using the word "large lot"
10 differently. Again, I'm referring to "large lot" to
11 mean 200 or more contracts in a single order.

12 Q. Correct, and I understand that. What I'm
13 saying is that there may have been traders who wanted
14 to buy or sell 200 or more contracts at the same
15 time, but did it by the Iceberg method of entering
16 smaller orders sequentially?

17 A. So when you say "smaller orders," do you
18 mean smaller displayed to the world orders?

19 Q. Correct.

20 A. In any event, the answer is it's certainly
21 possible, if somebody wanted to accumulate a big
22 position and used many small orders rather than one
23 big order. That's certainly possible.

24 Q. And you have stated in here that that is
25 an effective method of buying or selling large

1 numbers of contracts?

2 A. Well, what I did say is that you --
3 electing to use the Iceberg method, based on economic
4 reasoning in my analysis of an equity market that has
5 a similar option can be an effective method of
6 getting trades executed without moving the market as
7 much as you would if you exposed your orders.

8 Q. So the only trades encompassed in the 143
9 large lot orders by other marketing participants were
10 trades of 200 or more contracts entered at the same
11 time not via the Iceberg method?

12 A. Or orders of 200 or more. Trades are
13 separate, a separate issue, yeah.

14 Q. Separate issue.

15 A. Orders of 200 or more, and again, on the
16 last part I'm not certain because I'm not certain --
17 again, the fact that something was not displayed to
18 traders in realtime is not necessarily the same as
19 saying that it was not recorded by the exchange in
20 their database. So I'm using an exchange database,
21 so an Iceberg order says you don't display this to
22 the world in realtime, other than the tip of the
23 Iceberg, but that doesn't necessarily mean it's not
24 in the database.

25 Q. You don't know?

1 A. I don't know.

2 Q. You testified that Moncada cancelled his
3 large lot orders quickly as compared to other market
4 participants; correct?

5 A. That's correct, yes.

6 Q. And is a cancellation rate of
7 99.6 percent, which you say that Moncada -- that
8 includes cases where he would enter a large lot
9 order, cancel it, enter another one, cancel it, enter
10 another one, cancel it, all in a very short period of
11 time; is that correct?

12 A. That's correct. In the scenario you just
13 laid out, that would be three entries, three
14 cancellations.

15 Q. And he might have done that in response to
16 market movement; correct?

17 A. I mean, nobody but him knows for sure why
18 he followed the strategies he did.

19 Q. Correct. But that's one possibility --

20 A. So better to pose that question to him
21 than to me.

22 Q. But that would be one possible
23 explanation?

24 A. It's within the realm of reason that a
25 trader would cancel an order in response to what they

1 saw in the market.

2 Q. And he might do it very quickly and very
3 often, depending on what he saw in the market?

4 A. Might. Well, I'll go along with the word
5 "might."

6 Q. Well, you're trying to reach conclusions
7 about what he intended; correct?

8 A. I am, based on what he did.

9 Q. And I'm trying to suggest that there were
10 other motivations that were possible. Would you
11 agree with that?

12 A. Neither you or I is a mind reader. My
13 conclusions are based on what he did.

14 Q. Okay. But what he did, that is, to cancel
15 rapidly and reenter orders, might well have been
16 based on a response to market conditions; correct?

17 A. Pure conjecture. Maybe. Who knows?

18 Q. Okay.

19 A. In some cases.

20 Q. Now, if Moncada placed a large lot order
21 at a price, and the market -- let's say it was an
22 order to buy at 500, and the market went down from
23 500, would it be likely that anyone would buy his
24 large lot order at 500?

25 A. So if I understand your scenario, he's put

1 in an order. He's put in an order to buy at a given
2 price. The market has dropped.

3 Q. Right.

4 A. I mean, nobody's going to pay above
5 market, if that's your question.

6 Q. Yeah. If the market goes up from there,
7 people will buy at 500 from him; correct?

8 A. They might. I mean, you know, if an
9 order's the best on the book, it might get hit, it
10 might not.

11 Q. Well, if there is a demand for commodity
12 at a price and someone is offering to buy it --
13 someone's offering to sell it at a lower price, isn't
14 it likely that it's going to get sold?

15 A. All I can say is if you have the best
16 price, you may get hit, you may not. But you're
17 certainly more likely to get hit if you have the best
18 price.

19 Q. It's certainly a great risk?

20 A. At risk? I guess it depends on what you
21 have in mind for risk. But if you have the best
22 price on the book, you might get hit.

23 Q. So if he has a large lot order out there
24 and the market -- a large lot order to buy -- and the
25 market goes down, there's a good chance that someone

1 will buy his large lot order, and he'll lose the
2 difference between what he sells at and what the --
3 I'm sorry -- when the market goes down, no one will
4 buy at his price; correct?

5 MR. RIDNOUR: Object to the form. I think
6 he said he put in a buy order, and then someone else
7 tried to buy his buy order.

8 MR. ASCHE: Then let me start over and say
9 it again.

10 Q. (By Mr. Asche) If he has a large lot order
11 to buy at a price.

12 A. Uh-huh.

13 Q. And the market goes down, it is certainly
14 likely that other traders will accept his offer and
15 sell to him at his price, which is now higher than
16 the market; correct?

17 A. Again, you know, how likely is an open
18 question, but again, if he's the best, if he's the
19 best price, the chances that somebody will hit
20 certainly go up.

21 Q. Okay. And conversely, if he has an order
22 to buy and the market goes up, so he's offering to
23 buy at lower than the market, he's not going to get
24 hit?

25 A. Less likely to get hit. It would take a

1 big order to get to him.

2 Q. Right. So he has, in that circumstance, a
3 risk, but little or no potential for reward; is that
4 correct?

5 A. I'm not sure I would agree with that.
6 There are certainly times when one could have a trade
7 executed that one would say, "I wish that hadn't
8 happened." That can happen in general.

9 Q. But if Mr. Moncada employed that reasoning
10 that I just suggested in my question, that would be a
11 reasonable -- that would be a reasonable conclusion
12 for a trade. If he can't make money, if the market
13 moves lower and he has to lose money, or he is at
14 risk of losing money if it moves higher, isn't that a
15 good reason for not leaving that large lot order out
16 there?

17 A. Well, certainly there are legitimate
18 reasons for cancelling an order.

19 Q. And that's one of them?

20 A. The scenario you lay out is a reason that
21 one might want to cancel an order.

22 Q. Okay. Now, if a trader has a strategy of
23 placing large lot orders and cancelling them quickly
24 and reinstating them so that there are a large number
25 of such orders, isn't it more likely that a smaller

1 percentage of his orders will get hit than a trader
2 who leaves his order on for an extended period of
3 time?

4 A. If I understand what you're saying
5 correctly, I think I agree. Rapid cancellations will
6 tend to reduce your execution rate as compared to
7 letting the order sit.

8 Q. Okay, and why would a trader let an order
9 sit for any length of time, a large lot order?

10 A. Other things equal, you're going to get a
11 higher rate of execution if you let the order sit.

12 Q. But you might get a higher rate of
13 execution at a less advantageous price; correct?

14 A. Well, you set your price, so...

15 Q. Right, you've set your price, but the
16 market may disagree; correct?

17 A. Well, no. In some sense disagreement is
18 what makes trades happen.

19 Q. Correct.

20 A. I'm willing to buy at a price, you're
21 willing to sell at a price, there must be something
22 different in our motivations.

23 Q. And are there some traders who are willing
24 to buy at a price or sell at a price at a given
25 instance in time and not two seconds or five seconds

1 later?

2 A. I mean, we do see people cancel trades,
3 modify -- sorry -- cancel orders, and we also see a
4 lot of modifications of orders.

5 Q. Right. By the way, the cancellation rates
6 that you're reporting here, do those include
7 modifications?

8 A. No. The field says "cancel" on these.

9 Q. So if Moncada enters an order and cancels
10 it, and trader X enters an order and modifies it, the
11 score is one to nothing Moncada; correct?

12 A. In terms of counting cancellations, yes.

13 Q. Okay. Do you have any idea whether and
14 how, to what extent traders other than Moncada would
15 modify large lot orders as opposed to cancelling?

16 A. I did not quantify that.

17 Q. Could you?

18 A. I believe that could be done with the
19 data.

20 Q. Okay. Is it fair -- I mean, is there a
21 difference in terms of result between placing an
22 order, cancelling it, placing another order at a
23 different price, as opposed to placing an order and
24 modifying?

25 A. Well, modification keeps you continually

1 part of the market. Cancellation, obviously you're
2 out of the market for some amount of time.

3 Q. Okay. So the advantage of cancellation
4 might be to give the trader a chance to look at the
5 market, look at his charts, consult the stars or do
6 whatever else he does to decide --

7 A. It takes you out of the market for
8 whatever -- for whatever your motivation might be.

9 Q. Are there traders who are interested in
10 buying or selling large lots who are less price
11 sensitive than other traders? That is, they want the
12 commodity or they want to unload the commodity, and
13 they're not as concerned about a tick or two up or
14 down.

15 A. In general, some traders are more
16 motivated to get trades done than others.

17 Q. And would a trader who is more motivated
18 to get a trade done than others tend to keep his
19 offer on longer than one who is more price sensitive?

20 A. Indeed. If you don't want your trade to
21 get done or are not particularly concerned with it
22 getting done, you would cancel quickly. If you want
23 to ensure it gets done, all things equal, you'd tend
24 to leave it there longer.

25 Q. And the fact that you're price sensitive

1 doesn't mean that you don't intend to -- doesn't
2 necessarily mean that you don't intend to effectuate
3 the trade, it just means that you intend to do it at
4 your price, not some other price?

5 A. Potentially.

6 Q. On page 4, on paragraph (v), little (v).

7 A. Yes.

8 Q. You state that Moncada's actual trades
9 were systematically in the opposite direction of his
10 large lot order. Do you see that?

11 A. I do.

12 Q. Were those trades at the same prices as
13 his large lot orders or at different prices?

14 A. I did not assess whether they were at same
15 or different prices.

16 Q. Do you know whether, prior to entering the
17 large lot orders, Moncada had positions that were
18 consistent with the large lot orders?

19 A. I did not quantify his positions prior to
20 entering the orders.

21 Q. So hypothetically, if Moncada had owned
22 ten contracts and there's a large lot order to buy
23 200, he then sells ten contracts; that is, the ten
24 contracts he owns?

25 A. Yes.

1 Q. That would be an example of what you're
2 talking about in paragraph (v)?

3 A. That would be an example. My analysis
4 says that, in fact, that's what he typically did.

5 Q. Yeah, and so -- but wasn't it also true
6 that he typically already was either long or short in
7 the same direction as his large lot order?

8 A. I didn't quantify that.

9 Q. Would that be something you'd want to
10 know?

11 A. Doesn't seem terribly central to me.
12 First of all, it's difficult for me to do without
13 actually seeing his account statements. In other
14 words, I didn't know his overnight positions. That
15 was not necessary for any of the analysis I did, but
16 it would be necessary for the analysis you propose.
17 I don't think it's particularly useful. I think
18 nothing speaks louder about what somebody intends
19 than what they do, and what he did was trade in the
20 opposite direction of his large orders.

21 Q. But he traded in the opposite direction of
22 existing positions. Wouldn't that be relevant?

23 A. I guess I don't see the relevance.
24 Whether this was done to liquidate an existing
25 position or put on a new position, in my mind the

1 key -- the key point, I think, in terms of learning
2 what his intent was from the data, was that he
3 consistently traded in the opposite direction of his
4 large orders.

5 Q. In your experience, do traders sometimes
6 put in orders to buy at a price and orders to sell at
7 a higher price at the same time?

8 A. That's sometimes done, yes.

9 Q. So they're putting themselves in a
10 position where they would trade in the opposite
11 direction of another order?

12 A. Sorry, I didn't follow that, where you
13 were headed with that.

14 Q. Okay. Moncada puts in an offer, an offer
15 to buy at 500, and he puts in an offer to sell at
16 501.

17 A. Uh-huh.

18 Q. The offer to sell -- the offer to buy is
19 withdrawn and the offer to sell is hit. That would
20 be an example of what you're talking about; correct?

21 A. That would be an example, yes.

22 Q. But there would be nothing wrong with
23 those orders; correct?

24 A. I'm not sure. I think it depends on what
25 the overall pattern was and what the evidence of

1 intent is.

2 Q. Well, say he did it a thousand times, he
3 put in an order to buy at a price and put in an order
4 to sell at a higher price, and he executed one of
5 those orders and not the other. Would there be
6 anything wrong with that strategy?

7 A. I can't answer that in isolation. It
8 depends on what the overall strategy is and what his
9 intent was.

10 Q. Well, that's all he did. He would
11 routinely, hundreds of times a day, do that. He
12 would put in large lot orders, cancel them, and then
13 execute a trade in the opposite direction at a
14 different price. Anything wrong with that?

15 MR. RIDNOUR: Objection; calls for a legal
16 conclusion.

17 A. Yeah, just what I was going to say.
18 There's both legal and economic issues here.

19 Q. (By Mr. Asche) Economically, isn't that a
20 reasonable strategy?

21 A. Reasonable can be in the eye of the
22 beholder. I would want to know what it did, what
23 effect it had on the market. Did it improve the
24 market or degrade the market? As an economist, I
25 would want to know. Then, of course, there's the

1 question of whether it's legal, which is not for me
2 to decide.

3 Q. It's not a question of whether it's legal.
4 Is it an indication that he didn't intend to trade?

5 A. If it's happening again and again and
6 again, it would be consistent with the interpretation
7 that he didn't intend to trade on one side. Nothing
8 speaks louder about intentions than actions.

9 Q. If he routinely places orders at different
10 prices and the market moves in a direction which
11 leads him to execute one trade and cancel the other,
12 you're saying that that would be indicative of
13 manipulation?

14 MR. RIDNOUR: Objection; asked and
15 answered.

16 A. I'm not opining on manipulation. Now, if
17 it was random on the buy side and the sell side, that
18 would be one thing. If it was systematically on one
19 side versus the other, then I would ask, "Well,
20 what's this doing to other people's order strategy?
21 What's this doing to the liquidity in the market?
22 What's this doing to bid-ask spreads? What's this
23 doing to volatility in the market?" Those would all
24 be relevant questions that I would want to assess.

25 Q. So what did his trading do to liquidity in

1 the market?

2 A. Slightly widened the bid-ask spreads
3 around the times that he was entering his large
4 orders.

5 Q. Slightly by how much?

6 A. I'd -- report estimates.

7 Q. Is it fair to say less than a tenth of a
8 penny, on average?

9 A. There's coefficients in the tables, and
10 right offhand I can't convert that into a penny
11 amount for you. I think it's safe to say moderate,
12 modest effects on the bid-ask spread, on average,
13 across all his orders. Probably table 12 is probably
14 the one you're looking for.

15 Q. I'm looking at the text here.

16 A. Okay. Probably page 29.

17 Q. I think paragraph 62 on page 26.

18 A. In 62, I think I'm focusing on the level
19 of prices rather than spreads.

20 Q. Okay. Is it fair to say that for every
21 1,000 net contract entered by Moncada, the increase
22 was about a tenth of a penny or less?

23 A. So I'm just reading the paragraph 62 here.
24 So some of the coefficients .096, prices were
25 measured in cents. Those are contracts, so for each

1 thousand contracts we have an increase of .09 cents,
2 correct, yes.

3 Q. And --

4 A. I should clarify that's on average, across
5 all.

6 Q. And how are wheat contracts quoted? In
7 increments of what?

8 A. The tick size I've mentioned in here, I'm
9 not recalling offhand.

10 Q. If I suggest 2-and-a-half cents; is that
11 correct?

12 A. That sounds correct.

13 MR. RIDNOUR: I think it's a quarter cent.

14 MR. ASCHE: I'm sorry, quarter cent.

15 THE WITNESS: I know I have it written
16 down here somewhere.

17 MR. ASCHE: See, you can get a witness to
18 say anything.

19 THE WITNESS: I know I have it written
20 down here at some point.

21 MR. ASCHE: I think it's a quarter cent.

22 THE WITNESS: Quarter cent, yeah.

23 Q. (By Mr. Asche) So the average movement was
24 less than a tick?

25 A. Per thousand.

1 Q. Yes, okay. And I think, just again
2 focusing on this area, I believe you looked at it in
3 10-second intervals up to 30 seconds?

4 A. I measured things at 10-second intervals,
5 yes.

6 Q. And essentially between 20 and 30 seconds,
7 there was no impact?

8 A. That was not true across the board. It
9 was true for -- I need to refresh my memory.

10 Q. Look at the footnote 26 on page 26.

11 A. So the footnote 26 refers to the third
12 lag, so there was no evidence of an independent
13 effect at a 30-second lag, so there was a
14 contemporaneous effect, a 10-second lag defect, a
15 20-second lag defect, but no 30-second lag defect.

16 Q. And did you measure how long after Moncada
17 put in his large lot orders he traded in the opposite
18 direction? Did you ever quantify the time lag?

19 A. I mean, there is data in here on that
20 issue. So to back up a little bit, I provided
21 estimates that showed he traded in the opposite
22 direction of his large orders, and then I provided
23 estimates of how big that net effect was, how big was
24 his trading in the opposite direction as greater
25 amounts of elapsed time went by. So we can look at

1 the specific numbers, if you wish.

2 Q. Could you find that here in your report,
3 please.

4 A. Yes.

5 Q. Look at text first, if you don't mind, so
6 that I can read it.

7 A. Sure.

8 Q. Maybe it's easier to look at text than
9 charts. I put myself in that chair, not you.

10 MR. RIDNOUR: Thank you for your
11 consideration.

12 A. And not your colleagues. So the specific
13 numbers begin -- the discussion begins around
14 paragraph 40. Specific numbers start to show up by
15 paragraph 42.

16 Q. (By Mr. Asche) So at the bottom of
17 page 18, you said: "The estimates indicate that
18 within one minute of posting large lot orders, he had
19 traded in the opposite direction an average of 34
20 contracts."

21 A. 3.4.

22 Q. I'm sorry, 3.4.

23 A. No problem.

24 Q. And then you go on to talk about five
25 minutes later and 20 minutes later, okay?

1 A. Correct, yes.

2 Q. Where do you discuss what happens in the
3 first 20 seconds?

4 A. Let me look at the table.

5 Q. And which table is that?

6 A. It will take me a moment to find it.
7 Table 8 would be the relevant table. So I believe
8 you asked about 20 seconds?

9 Q. Yes.

10 A. I don't have 20 seconds in the table. I
11 have 10 seconds and one minute in the table.

12 Q. So walk me through this table, if you can.

13 A. So shall we start with the panel A? I
14 think it's the most relevant since it involves the
15 most data and also combines information from the two
16 markets, Kansas City and Chicago. So what we have
17 here is that the first coefficient listed there,
18 negative .59, says that in the same 10 seconds that
19 the large orders were entered, on balance Moncada
20 trades slightly in the opposite direction within the
21 same 10 seconds.

22 Q. And that would be the period that you say
23 there was some effect on the price?

24 A. Correct.

25 Q. Okay, go ahead.

1 A. So he traded slightly in the opposite
2 direction even in the same 10 seconds that he entered
3 the large order. But we're talking about less than
4 one contract per thousand. He entered a thousand,
5 and on average traded slightly less than one in the
6 opposite direction during the same 10 seconds.

7 Now, these are cumulative effects, so by
8 10 seconds later, so now adding in also the trading
9 during the 10 seconds after entering an average of
10 1.16 contracts in the opposite direction, by one
11 minute later he had traded, on average, 4.8 contracts
12 in the opposite direction, and so on and so forth.

13 Q. I'm a little confused by "the same 10
14 seconds." Does that mean within 10 seconds of the
15 large lot trade?

16 A. No, same 10-second interval. So we've got
17 a 10-second interval. He entered some large lot
18 orders during the 10-second interval, and then I
19 asked what was the change in his position during the
20 same 10-second interval that he entered the large lot
21 orders.

22 Q. Meaning within 10 seconds of order?

23 A. No. We have a 10-second period of time,
24 say, from straight noon to 10 seconds after straight
25 noon. During that 10-second period, some orders were

1 entered, some trades were executed. During the same
2 10-second interval, he traded slightly opposite --

3 Q. I'm not -- and why would you use an
4 arbitrary 10-second interval as opposed to starting
5 with the large lot trade as second zero and going 10
6 seconds after that and then 10 seconds after that,
7 the same as you did in paragraph 62?

8 A. Well, that seems like a reasonable
9 alternative strategy.

10 Q. Well, it would at least be able -- enable
11 someone to compare what you said the effect on prices
12 was with his actual trading; correct?

13 A. I can see why you might want to see that
14 analysis.

15 Q. But you didn't do it?

16 A. Not one that has been done.

17 Q. And did you do any analysis which traced
18 the effect of large lot trading beyond 30 seconds?

19 A. No. Statistically it becomes very hard to
20 identify an effect over longer periods of time, just
21 because there's other things going on in the market.

22 Q. Were there occasions where Moncada,
23 subsequent to entering large lot orders, traded in
24 the same direction as the large lot order?

25 A. I didn't specifically identify them, but I

1 expect there would be. My estimates are all what
2 holds in the data on average. There can be
3 individual data points that differ from the average.

4 Q. So more often than not he would trade in
5 the opposite direction. Is that what you're saying?

6 A. I didn't precisely identify that. It's a
7 slightly different statement from saying that on
8 average he sold, but loosely speaking.

9 Q. So one isn't the mean and the other --

10 A. How about if we use the loose word
11 "typically." Typically, he traded the opposite
12 direction.

13 Q. But not always?

14 A. Not necessarily always.

15 Q. And you made no effort to quantify the
16 percentage of times he traded in the same direction
17 or the opposite direction?

18 A. That was not something I quantified.

19 Q. And is it fair to say that Mr. Moncada
20 traded pretty heavily? I mean, he entered a lot of
21 trades?

22 A. He had a lot of orders.

23 Q. And he executed a lot of trades?

24 A. Yeah. I mean, I have data on his
25 executions.

1 Q. So it would be surprising to see
2 Mr. Moncada not executing orders in the minute, two
3 minutes, ten minutes, hour much after a large lot
4 order; correct?

5 A. I'm sorry? What would be surprising?

6 Q. To see Mr. Moncada not executing orders in
7 that interval.

8 A. I guess I'm not sure quite what you're
9 looking for here.

10 Q. Let me -- you looked at Mr. Moncada's
11 trading pattern; correct?

12 A. Yeah.

13 Q. And he would enter many, many trades in
14 the course of an hour?

15 A. Many, many orders, yes.

16 Q. And many trades?

17 A. Yes, he had a lot of --

18 Q. He executed --

19 A. -- trades.

20 Q. -- a lot of trades. And if you looked at
21 any 10-minute slice, it would not be atypical to see
22 him both buying and selling; correct?

23 A. You know, I didn't precisely quantify
24 that, but I can say, you know, I would not be
25 surprised to see him buying and selling in a given

1 period of time. He was an active trader.

2 Q. And that would not even be unusual for an
3 average trader; correct?

4 A. I guess it depends on the average trader.
5 I think, you know, my sense if there's a lot of
6 traders who just dabble a little bit in the market.
7 But there will be other active traders, and you will
8 find cases where traders are both buying and selling
9 in a given period.

10 Q. Now, in the 20-second interval that you
11 say there was some effect on price, even though it
12 was less than quantifiable as a bid --

13 A. I wouldn't agree it's less than
14 quantifiable. It was quantifiable.

15 Q. Well, it was less than the minimum
16 measurement on the --

17 A. Per thousand contracts.

18 Q. Correct.

19 A. Over the periods where he put in many
20 thousands of contracts.

21 Q. Yes. So were you able to determine what
22 Mr. Moncada did in that 20-second interval?

23 A. I'm sorry, which 20-second interval do you
24 have in mind in particular?

25 Q. The interval that you referred to in

1 paragraph 62.

2 A. I can say that on balance he was trading
3 the opposite direction.

4 Q. Do you know what percentage?

5 A. I do not know the percentage of times he
6 went the opposite direction. I know that on average,
7 he went the opposite direction.

8 Q. And you know that for the 20-second period
9 after the large lot orders? There's --

10 A. Well, we have --

11 Q. -- the 10 and the 10.

12 A. Let me refresh my memory on what we had in
13 the table again.

14 MR. RIDNOUR: For the court reporter's
15 sake, if you could wait until he finishes his
16 questions.

17 MR. ASCHE: I'm sorry.

18 THE WITNESS: I have specifically
19 quantified what he did in the same 10 seconds and
20 then what he did in the combination of same 10
21 seconds and following ten seconds.

22 Q. (By Mr. Asche) And you said that the
23 effect was -- I don't know whether you used the word
24 "minimal" or "slight."

25 A. On prices was --

1 Q. Yes.

2 A. -- as you pointed out, less than a tick
3 per thousand contracts.

4 Q. But again, let's go back to that table 8,
5 panel A.

6 A. Uh-huh.

7 Q. What does this show? I mean, what is, in
8 English, what does a "coefficient" mean? What is a P
9 value? What does this show?

10 A. So the question I'm trying to go after and
11 the reason I did this analysis is to assess what
12 Mr. Moncada's actual trading was around the time that
13 he submitted his large orders. So the technique is a
14 regression analysis. I don't know if you want to go
15 deeply into that or not.

16 Q. I don't want to, but I think I have to.
17 (Laughter)

18 A. So regression analysis, I think I used the
19 phrase in the text, is arguably the most widely-used
20 statistical tool, I think I said in finance and
21 economics. That's the branch of science that I'm
22 most familiar with. I would not be surprised if it
23 was also the most widely-used in other branches of
24 science. It's just I don't read the journals in
25 other areas as often.

1 Anyway, suffice it to say, it's an
2 extremely widely used statistical technique for
3 assessing the relationship between variables. In
4 this case the variable that I was interested in
5 quantifying was Mr. Moncada's actual trades, and I
6 was interested in assessing the relationship between
7 his large order entry and his actual trades. So that
8 was the issue I was after.

9 Regression analysis was the tool that I
10 used. The coefficients are estimates of the average
11 statistical association. So he's entering large
12 trades. I wish to quantify the association between
13 large trades entered -- I'm sorry, I said "trades
14 entered" and I should be saying "orders entered" --
15 large orders entered and what actual trades occurred
16 simultaneously and subsequently. The coefficient
17 estimates are based on the statistical technique of
18 the best estimate of the relationship between his
19 orders entered and his subsequent trades.

20 Q. Okay. So let's just translate that to a
21 hypothetical, if we can. If he places a large lot
22 order to buy for 200, and subsequently, within 10
23 seconds, sells 10 contracts, what -- I mean, suppose
24 that was the only transaction. What would the
25 coefficient be?

1 A. So you said, in your example, it was an
2 order of 200 and a trade of 10?

3 Q. Yeah. By the way, does it matter what the
4 quantity is in your analysis?

5 A. I mean, quantities matter in the sense
6 that the coefficient is per thousand, and again, I
7 want to stress we're talking about on average in the
8 data. Individual data points will differ. But the
9 coefficient is per thousand, so if you want to
10 estimate, say, typically how much did he trade, it
11 would be the size of the orders in thousands times
12 the coefficient to get an answer. So quantity
13 matters in that sense.

14 Q. Okay, so if it was 200.

15 A. Okay. So 200, so the units I'm using is a
16 thousand, so we'd multiply by 5. So sorry, give me
17 your example again. He put in a 200 order and then
18 traded how much the opposite direction?

19 Q. Ten.

20 A. Ten? So since I'm using units of 1,000 in
21 terms of my numbers and your single example, if I'd
22 applied my data to only that data point, it would
23 have said 50 that he put in. He put in per thousand,
24 because he put in 200 in your example, then traded
25 ten in the opposite direction. So per thousand, he's

1 trading 50 the opposite direction.

2 Q. Okay. And what does the coefficient of
3 minus .59 tell you? Let's do it this way. Suppose
4 he puts in -- let's say he puts in a large lot order.
5 Let's make it easy. Let's say 1,000, okay?

6 A. Uh-huh.

7 Q. Okay. What would that tell you his
8 average trade in the opposite direction would be in
9 the ensuing 10 seconds or in the same 10 seconds?

10 A. The same 10 seconds, just about half a
11 contract. 1,000, the hypothetical here, a 1,000
12 contract buy order, on average, in the same 10
13 seconds he sold half a contract.

14 Q. And if he put in 1,000 contract buy order
15 in the next 10 seconds, you would expect that it
16 might be slightly over one contract that he would
17 purchase and sell in the opposite direction?

18 A. It's a little more complicated than that,
19 because I've also got the 10 seconds later effect
20 here.

21 Q. So it's cumulative?

22 A. It's cumulative.

23 Q. So if you took the same 10 seconds and the
24 next 10 seconds, it would be about one?

25 A. Well, getting close to two, because if I

1 understand your hypothetical, it's a 1,000 contract
2 buy order in a given 10 seconds followed by another
3 1,000 contract buy order in the next 10 seconds?

4 Q. No, no, no. A 1,000 contract buy order,
5 what would happen over the same 10 seconds plus the
6 next 10 seconds?

7 A. Oh, okay. So this data says that on
8 average, if you combine current and next 10 seconds,
9 he has sold 1.1 contracts.

10 Q. Okay. Now, if instead of 1,000, I mean,
11 there were very few -- there were no orders for
12 1,000, were there?

13 A. I don't recall offhand.

14 Q. Typically it would be 200, 400, something
15 like that?

16 A. I'm thinking 500 might have the biggest,
17 but this is by memory and a little loose.

18 Q. So let's say 500. Over the same 10
19 seconds, how many contracts would you have expected
20 him to trade in the opposite direction?

21 A. In the same 10 seconds?

22 Q. Yeah, same 10 seconds.

23 A. Only about a quarter of a contract in the
24 same 10 seconds.

25 Q. And in the same 10 seconds -- sorry -- in

1 the same 10 seconds plus the next 10 seconds, how
2 many contracts would you expect him to trade in the
3 opposite direction?

4 A. About one, and you're using the word
5 "expect." Again, this is an average.

6 Q. I understand.

7 A. It wouldn't have been that case every
8 incident. But on average, per 500 contracts, he's
9 trading about one the opposite direction in the same
10 and subsequent 10 seconds.

11 Q. Okay. And the price change per that
12 contract would be one-tenth of a penny?

13 A. I mean, the estimate of his effect on the
14 price was in the vicinity of a tenth of a penny;
15 correct.

16 Q. Now --

17 A. Per thousand.

18 Q. I understand. Now I understand panel A is
19 cumulative; correct?

20 A. Correct.

21 Q. But just eyeballing it, it looks like most
22 of his trading in the opposite direction occurred
23 well after a minute after he placed the large lot
24 order; correct?

25 A. That's correct.

1 Q. And by far most of them?

2 A. Indeed. It's out 10 minutes, 30 minutes,
3 60 minutes later that we see the largest cumulative
4 trading in the opposite direction.

5 Q. And you never quantified the effect on the
6 market of these large lot orders that far out?

7 A. What do you mean "that far out"? In terms
8 of did his orders affect prices 60 minutes out?

9 Q. Yes.

10 A. Yeah. The data, there's just not enough
11 information in the data to reliably say what he did
12 to prices that far out.

13 Q. Understood. So coming back to the text on
14 page 4, you have a lot of -- you discuss what happens
15 within 2 minutes, within 10 minutes, within 30
16 minutes, within 60 minutes. Do you see that?

17 A. Yes.

18 Q. But you have no information as to whether
19 those trades in the opposite direction benefitted
20 from any price change associated with his large lot
21 orders?

22 A. That's correct. My assessment of his
23 effect on the market shows short-term effects. I
24 cannot say whether he affected the market that far
25 out.

1 Q. And the bulk of his trading in the
2 opposite direction was not short-term. It was more
3 than a minute after?

4 A. Correct.

5 MR. ASCHE: This might actually be a good
6 time for a five-minute break.

7 (Recess)

8 Q. (By Mr. Asche) On paragraph 10 of your
9 report --

10 A. Yes.

11 Q. -- you note that he accounted for
12 6.1 percent of total executions against large lot
13 orders. Do you see that?

14 A. Yes.

15 Q. Would you characterize that as a
16 substantial amount of trading? Just the executed
17 large lot orders.

18 A. I mean, "substantial" is a subjective
19 word. You know, he was, in general, an active
20 trader, and I believe we quantified the exact number
21 of contracts that were traded against his large lot
22 orders. You know, is that substantial or is that
23 insubstantial is a little subjective. There's a
24 specific number in the report.

25 Q. Well, on page 11 you talk about his

1 cancellations. I'm sorry, paragraph 11, forgive me.

2 A. Okay.

3 Q. You discuss his cancellation rate at 99.6
4 percent of the large orders?

5 A. Yes.

6 Q. Do you report in here what his
7 cancellation rate was on other orders?

8 A. Yes, it is quantified.

9 Q. Where is that?

10 A. I'm just looking to see if it's in the
11 text. If not, we can go to the tables.

12 MR. RIDNOUR: Paragraph 16.

13 THE WITNESS: Yes, exactly. So he
14 cancelled 51.5 percent of his small lot CBOT orders.

15 Q. (By Mr. Asche) And without knowing more,
16 would you expect that there would be a higher
17 cancellation rate of large lot orders than the
18 smaller orders?

19 A. You know, if you just came to me and said,
20 "Do you think people cancel more large orders or
21 small orders," I would not have a firm opinion on
22 that. It could depend on a lot of things, like how
23 motivated are they to get executed? Which I don't
24 know. In the markets in general, you know, do the
25 people who put in large orders do that because

1 they're more motivated to get executed? That would
2 matter also. Anyway, my answer is that I don't know
3 how that would go in general.

4 Q. You do have -- you do reflect the
5 cancellation rate of large lot orders for non-Moncada
6 traders, traders other than Moncada.

7 A. Yes, I did. I did quantify that.

8 Q. About 20 percent; is that right?

9 A. We can look. I'm finding, in
10 paragraph 15: "On the eight charge dates, other
11 participants cancelled only 28.7 percent of their
12 large lot orders," yes.

13 Q. Did you compare cancellations of non-large
14 lot orders among other participants? That is the
15 market in general.

16 A. Yes. That's here somewhere as well.

17 Q. Okay.

18 A. Do you want to find the specific number?
19 It's in the table. I don't recall if I mentioned it
20 in the text. We can find it in the table if you
21 wish.

22 Q. Yes.

23 A. So table 3, Order Entry and Cancellation.
24 This is CBOT. So small lot orders not EM4. EM4 was
25 in the data to identify Moncada, so that's the order

1 we're interested in. Looks like small lot orders by
2 other than Moncada, 70 percent were cancelled.

3 Q. Okay. So the market in general, it
4 cancelled small lot orders at a rate of 70-plus
5 percent and large lot orders at only 28 percent?

6 A. Yeah. The number is 29 percent, 28.7
7 percent on the charge dates, 36 percent in the
8 broader sample.

9 Q. Okay. In terms of actual number of
10 contracts traded by Moncada, what percentage, if you
11 recall, during this period that you studied, what
12 percentage of actual trades, contracts traded, were
13 the result of large lot orders?

14 A. I believe I may have that number. Let's
15 have a look. There's a lot of numbers in this
16 report.

17 Q. Yes.

18 A. So table 2 has some market shares. So in
19 the middle of table 2 we have CBOT's total order
20 entry. It was 10,380,000 contracts. Large lots were
21 1.3 million contracts. I'm sorry, your specific
22 question was?

23 Q. This table doesn't, I don't think, address
24 my question. My question was looking at Moncada's
25 trading, not the market, what percentage of contracts

1 he actually traded were the result of large lot
2 orders.

3 A. Let me see what we've got here. I'm not
4 sure that percentage is here, but I think the data, I
5 think the data is here. So he traded --

6 Q. Oh, I see. So he traded 6,000 large lot
7 orders?

8 A. He traded 6,000 contracts off of his large
9 lot orders.

10 Q. And 50,000 small lot orders?

11 A. And 50,000 off of the small lot orders,
12 correct.

13 Q. Over what period of time?

14 A. So okay, it's indicated here on the table.
15 This is August 13th to November 30th, 2009. This is
16 on CBOT. I think originally you were looking for a
17 percentage. Looks like it would be about 11 percent.
18 About 11 percent of his total trading came off of his
19 large lot orders.

20 Q. Okay. And each contract was worth, on
21 average, how much; do you recall?

22 A. No, I don't. We'd have to go back. I'd
23 have to refresh my memory as to how many bushels were
24 involved and then multiply it by price. So I don't
25 have that readily at hand.

1 Q. Well, do you know how much bushels are
2 involved in a contract?

3 A. I'm thinking it was 1,000, but I'm going
4 by memory. These are the sort of things that I have
5 to look up every time I return to the data.

6 Q. Okay.

7 A. It is in the report somewhere, I believe,
8 if we need to verify it now.

9 Q. Let me just ask you, then, eyeballing
10 table 2, is it fair to say that the percentage --
11 that, first of all, that Moncada's percentage of all
12 CBOT large lot orders -- which was 6.1 percent; is
13 that correct?

14 A. If we're talking about his trades, his
15 share of the trades generated by large orders.

16 Q. Yes, 6.1 percent?

17 A. Yes.

18 Q. His -- but his total share of the CBOT is
19 1.9 percent, in terms of trades?

20 A. I believe that's correct, yes.

21 Q. So his -- relative to the rest of the
22 market, he did relatively more trading in large lot
23 orders than would be expected by his share of the
24 total market?

25 A. He did much less trading than you would

1 expect, given his share of the order entry. He did
2 more trading than you would expect, based on his
3 share of overall trading.

4 Q. And looking at his -- the number of
5 contracts, large lot orders, traded versus small lot
6 orders traded, his percentage of about 10.7 percent
7 was significantly higher than the percentage of large
8 lot orders traded by the rest of the market; is that
9 correct?

10 MR. RIDNOUR: Objection. Can you clarify
11 that question?

12 MR. ASCHE: Yes, I'll try. I'll try.

13 MR. RIDNOUR: Okay.

14 MR. ASCHE: I know I'm not -- (laughter)

15 MR. RIDNOUR: I was in the same boat
16 yesterday. I understand.

17 Q. (By Mr. Asche) His large lot executed
18 contracts represented 10.7 percent of his total
19 executed contracts; correct?

20 A. That's correct, yes.

21 Q. That percentage is significantly lower
22 than the rest of the market?

23 A. I'm not sure if we have that number for
24 the rest of the market.

25 Q. Well, if you have -- the number of large

1 lot orders which were not Moncada was 92,797?

2 A. Correct.

3 Q. And the number of small lot orders which
4 were not Moncada is 2,867,056; correct?

5 A. That's correct.

6 Q. Looking at table 2.

7 A. Yeah. Again, clarifying, these are trades
8 from those orders.

9 Q. Yes. So the rest of the market had a much
10 lower percentage of large lot trades executed than
11 Moncada?

12 A. Yeah, because they submitted so many less.

13 Q. Well --

14 A. I mean, he submitted most of the market's
15 large orders, so I guess it's not surprising that
16 even with his low execution rate, he ended up with --
17 he ended up with a fair number of executions despite
18 his low execution rate because the quantity submitted
19 was so large.

20 Q. And it's certainly predictable to him that
21 if he entered a large number of large lot orders, he
22 would end up with a fair number of executions?

23 MR. RIDNOUR: Objection; calls for
24 speculation as to someone else's intent.

25 MR. ASCHE: I don't know. I'm asking. If

1 he can't answer it, he can say that.

2 A. I mean, I don't know. I don't know what
3 was predictable to him. You know, perhaps he thought
4 he could do this and not execute any. I don't know
5 if that's what he thought. In any event, he did
6 execute some.

7 Q. (By Mr. Asche) Well, if he executed some,
8 he would know that some would be executed; correct?

9 A. Certainly after the fact he would know.
10 What he expected going on is harder to say.

11 Q. And this took place over a period of three
12 months.

13 A. Yeah. I mean, I studied about three
14 months, yes.

15 Q. So did the number of large lot orders
16 diminish over time?

17 A. I'm not sure I can give you the exact
18 answer to that.

19 Q. Did the number of large lot orders which
20 resulted in trades diminish over time?

21 A. I'm not sure that I tracked that through
22 time. I mean, in general, if you're going to put in
23 large orders at competitive prices, you should expect
24 some executions.

25 Q. So he was at risk; correct?

1 A. Oh, yeah. Whatever his strategies were,
2 there was risk, absolutely.

3 Q. And again, when you compare Moncada's rate
4 of cancellation with the rest of the market, it does
5 not -- you have no way of knowing whether the rest of
6 the market resorts to modifications as opposed to
7 cancellations?

8 A. I did not quantify their modifications of
9 large orders.

10 Q. Okay. By the way, do you know what the
11 CBOT's rules were with respect to priority of orders
12 in October of 2009?

13 A. I've seen a couple of documents that
14 describe their algorithms.

15 Q. What documents have you seen?

16 A. I'm not sure I could give you the names,
17 the names of the documents.

18 Q. Well, when did you see them?

19 A. I saw one document back in March, give or
20 take, and another one more recently.

21 Q. Do you still have those?

22 A. In some form. Not with me.

23 Q. No, I understand. Do you recall what the
24 priority rules were?

25 A. The rule that I recall being described was

1 first, the party who was first to establish a price
2 had priority on I believe it was up to 100 contracts,
3 after which there was a pro rata allocation, sharing
4 with other contracts at the same price. As I recall,
5 they rounded down in that pro rata, which then left a
6 little bit left over, and that little bit left over
7 went to the person who was first at the price.
8 That's my recollection of the description I saw.

9 Q. So it was essentially a three-step
10 priority?

11 A. As I understand it, yes.

12 Q. And if there were more than 100 shares --
13 contracts traded, if one trader entered an order for
14 500 shares and the rest of the market combined
15 entered an order for 500 shares, he would get half
16 the available, assuming he would get half the
17 available contracts over 100?

18 A. I think it's a little more -- yeah, I
19 think it's a little more complicated than that. But
20 in general, there would be sharing of the order
21 across the various parties that had the same price.

22 Q. But the larger a party's order, the higher
23 his pro rata share; correct?

24 A. Assuming that the incoming order was big
25 enough --

1 Q. Yes.

2 A. -- to get beyond the 100 that was
3 allocated to the first one.

4 Q. Yeah.

5 A. Yeah, then a large order would get a
6 larger pro rata share, based on my understanding of
7 their rules.

8 Q. Now, if a trader places and immediately
9 cancels a large lot order on a frequent basis, is
10 that pattern obvious to the market?

11 MR. RIDNOUR: Objection; calls for
12 speculation.

13 MR. ASCHE: He can say he doesn't know.

14 A. I don't know what would be obvious to the
15 market. They would -- if one was paying attention,
16 one could observe a pattern of large order entry and
17 cancellation.

18 Q. (By Mr. Asche) And it's generally a good
19 idea for traders in commodities to pay attention?

20 A. In general, yes.

21 Q. And certainly if that pattern was
22 occurring over a three-month period, even a trader
23 who's not paying attention would be likely to notice
24 it; correct?

25 MR. RIDNOUR: Again, objection; calls for

1 speculation.

2 A. Yeah. I mean, you know, I don't want to
3 mince words with you, but if they really weren't
4 paying attention, maybe they wouldn't. Let's just
5 say that an older trader should notice a pattern of
6 this type.

7 Q. (By Mr. Asche) Right. Did you track
8 whether there was any trend in the effect on market
9 price from the beginning of the period you studied to
10 the end of the period you studied?

11 A. I did not.

12 Q. So you don't know whether there was a more
13 exaggerated price difference at the beginning than
14 the end?

15 A. Were the effects bigger at the beginning,
16 lower at the end? I do not have any direct evidence
17 on that.

18 Q. Now, if other traders -- in paragraph 24
19 you say: "Other traders' large lot order were placed
20 further from the BBO." And BBO means what?

21 A. Best bid or offer.

22 Q. And you say: "Other traders' large lot
23 orders were placed further from the BBO on average."

24 A. Yeah, that's correct.

25 Q. Wouldn't that be a factor in determining